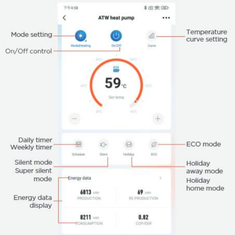
Noteworthy intelligent tools

Multiple control options for end user

Control from anywhere at your fingertips

SmartHome APP



Monitoring

- System status
- Real-time temperature
- Energy consumption data

Convenient modes

- Silent mode
- Eco mode
- Holiday mode

Scheduling

- On/off operation
- Holiday settings
- Hot water heating control

Download on the App Store

GET IT ON Google Play

Intuitive and easy-to-use for best experience

New User Interface



- Color display
- Intuitive interface
- Touch-key design
- Liquid crystal display
- Built-in Wi-Fi module
- Modbus protocol
- APP control
- Non-polarized wiring

reddot design award

Daily timer · Electrical heater · Silent mode · Holiday mode · Compressor · Disinfection · Energy saving mode · Additional heat source · Water pump · Weekly timer · Defrost · Anti-freeze function · Mains electricity · Solar heating function

Nature Plus series specifications

Model			MHC-V5W/D2N7-E2	MHC-V6W/D2N7-E2	MHC-V8W/D2N7-E2	MHC-V10W/D2N7-E2	MHC-V12W/D2N7-E2	MHC-V14W/D2N7-E2	MHC-V5W/D2N8-E2	MHC-V6W/D2N8-E2	MHC-V8W/D2N8-E2	MHC-V10W/D2N8-E2	MHC-V12W/D2N8-E2	MHC-V14W/D2N8-E2
Power supply		V/Ph/Hz	220-240/1/50						380-415/3/50					
Heating A7W35	Capacity	W	8000	9500	12100	14000	15500		8000	9500	12100	14000	15500	
	Rated input	W	1524	1919	2444	2979	3444		1524	1919	2444	2979	3444	
	COP		5.25	4.95	4.95	4.70	4.50		5.25	4.95	4.95	4.70	4.50	
Heating A7W45	Capacity	W	8100	9500	12300	14100	15500		8100	9500	12300	14100	15500	
	Rated input	W	2025	2436	3154	3760	4247		2025	2436	3154	3760	4247	
	COP		4.00	3.90	3.90	3.75	3.65		4.00	3.90	3.90	3.75	3.65	
Heating A7W55	Capacity	W	8000	9500	11900	13800	16000		8000	9500	11900	13800	16000	
	Rated input	W	2388	2969	3662	4381	5246		2388	2969	3662	4381	5246	
	COP		3.35	3.20	3.25	3.15	3.05		3.35	3.20	3.25	3.15	3.05	
Heating A-7W35	Capacity	W	7000	8000	10000	12000	13100		7000	8000	10000	12000	13100	
	Rated input	W	2154	2540	3175	4286	4852		2154	2540	3175	4286	4852	
	COP		3.25	3.15	3.15	2.80	2.70		3.25	3.15	3.15	2.80	2.70	
Cooling A35W18	Capacity	W	8300	10000	12000	14000	15000		8300	10000	12000	14000	15000	
	Rated input	W	1581	2174	2609	3182	3529		1581	2174	2609	3182	3529	
	COP		5.25	4.60	4.60	4.40	4.25		5.25	4.60	4.60	4.40	4.25	
Cooling A35W7	Capacity	W	7450	8100	11500	12400	14000		7450	8100	11500	12400	14000	
	Rated input	W	2224	2613	3770	4133	5185		2224	2613	3770	4133	5185	
	COP		3.35	3.10	3.05	3.00	2.70		3.35	3.10	3.05	3.00	2.70	
SCOP	Average climate, W35℃		A+++											
			5.35	5.33	4.94	4.76	4.72		5.35	5.33	4.94	4.76	4.72	
	Average climate, W55℃		A+++											
			4.06	4.01	3.96	3.85	3.86		4.06	4.01	3.96	3.85	3.86	
SEER	Average climate, W7℃		5.61	5.53	4.99	4.97	4.98		5.61	5.53	4.99	4.97	4.98	
	Average climate, W18℃		7.63	7.67	7.03	6.94	6.87		7.63	7.67	7.03	6.94	6.87	
ErP sound power level		dB	53	54	55	57	59		53	54	55	57	59	
Sound pressure (1m)	Heating A7W35	dB(A)	40	41	43	46	49		40	41	43	46	49	
	Cooling A35W18	dB(A)	39	41	42	43	44		39	41	42	43	44	
Refrigerant	Type (GWP)		R290 (3)											
	Charged volume	g	1100			1500			1100			1500		
Unit dimensions (H×W×D)		mm	1051 1330 475											
Packing dimensions (H×W×D)		mm	1235 1390 570											
Net/Gross weight		kg	148/170			169/191			153/175			169/191		
Water side connection			G1 1/4"BSP											
Outdoor air temperature range	Cooling	℃	-5 - 46											
	Heating	℃	-25 - 35											
	DHW	℃	-25 - 46											
Water setting temperature range	Cooling	℃	5 - 25											
	Heating	℃	25 - 80											
	DHW	℃	20 - 70											

Note:
data above based on test reference standard EN14511; EN14825; EN50564;EN 12102; (EU) No:811

Midea Building Technologies Division
Midea Group

HNP-M202506V1

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Please note that all the pictures in the document are for reference only. Actual products may vary.

ISO 9001 · ISO 14001 · ISO 45001



Midea Building Tech.

M thermal Nature Plus

R290 Heat Pump

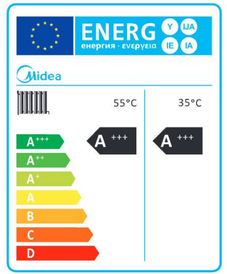
No-limits performance

Wide operating range with multiple applications

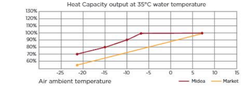


Superior eco-performance

Highest ERP rating
η s. Seasonal space heating energy efficiency
η s average up to A+++ at 35°C
η s average up to A+++ at 55°C



Powerful heating output at low ambient temperatures



100% Heating capacity output at-7°C
80% Heating capacity output at-15°C
70% Heating capacity output at-22°C

The above data is a general representation of the Nature series product line.
For model-specific data, refer to Engineering data book.

Industry-leading 80°C leaving water temperature



80°C leaving water satisfies all household demands

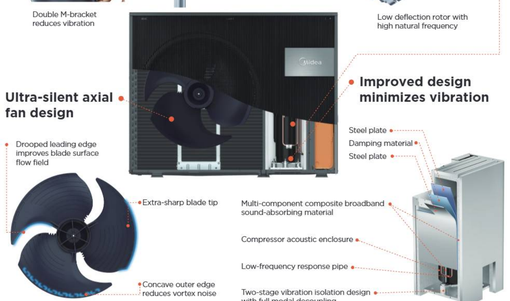
Noise-reduction technology for serene comfort



Ultra-quiet compressor design



Ultra-silent axial fan design

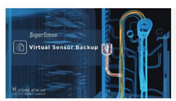


Next-gen engineering

Robust protection of electrical components



Smart sensor technology



- Equipped with **Up to 15 sensors** to monitor real-time parameters
- Backup **virtual sensors** ensure continuous operation in case of a sensor malfunction, allowing for uninterrupted functionality until repairs can be made.

Energy metering

An energy-metering function is able to calculate the share of energy derived from renewable sources. End users have the option to receive customized energy analyses through an app, user interface, and web portal



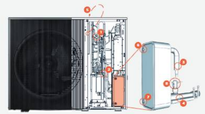
- **Large error rate** with water side calculation
- **Unstable** communication signals
- **Costly retrofit**

- **High accuracy** with Midea-pioneered algorithm
- **Stable** sensor signaling
- **Zero additional costs** with built-in algorithm

Above data are test qualified by Midea Group

Nine system-isolation protection for reliable safety

Components and intelligent algorithm dual antifreeze protection



Multi-sensor monitoring

When the detected temperatures match the system anti-freezing protection condition, the protection triggers.

① H_S:	High pressure sensor	⑤ T4:	Ambient temperature sensor(on rear of machine)
② L_S:	Low pressure sensor	⑥ Tw_out:	Plate heat exchanger outlet water temperature sensor
③ T2B:	Plate heat exchanger inlet refrigerant temperature sensor	⑦ Tw_in:	Plate heat exchanger inlet water temperature sensor
④ T2:	Plate heat exchanger outlet refrigerant temperature sensor	⑧ FS:	Flow sensor

Antifreeze valve drain low temperature water

When the self-detected water temperature is below 3 °C, the valve opens and drain the water automatically. The valve auto closes when the water temperature rises.



Note: Antifreeze valve (Optional accessory) should be installed combined with normally closed electric two-way valve.

Leakage detection sensor and leakage detection diagnosis provide early warning

Refrigerant leak detection sensor real time monitoring of refrigerant leakage



Once leakage is detected, the system take corresponding actions

- Compressor stops immediately to reduce system pressure and slow down refrigerant leakage rate
- Auxiliary heater shut off to eliminate potential ignition sources
- Fan running at the highest speed to avoid refrigerant accumulation
- Valves and pump stop to avoid refrigerant enter indoor side
- HMI&APP&PCB output leakage alarm

Leakage detection diagnosis can judge whether there is leakage

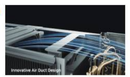
The diagnosis result can be checked through both LetsLink APP and Intelligent HVAC Management System.



Multi safety design to guard user safety even there is leakage

Innovative air duct design

In case of refrigerant leakage, a forced convection will be generated by the fan, the refrigerant effectively dispersed and that prevent refrigerant accumulation inside the unit



Fully closed electronic control box

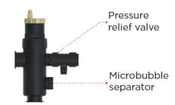
Electronic components that may generate sparks are integrated into a single unit, with some parts using explosion-proof components. The entire electrical control box is designed with a sealed explosionproof enclosure (IP55), preventing refrigerant explosions at the source.





Integrated installation Micro-bubble separator and pressure relief valve

Microbubble separator effective separate gas from the liquid. Pressure relief valve helps releasing excessive built-up pressure in the system. That prevents system failure, explosions, or fires.



Independent refrigerant and hydraulic system

The refrigeration circuit is hermetically sealed in the outdoor unit, that prevent refrigerant from leaking into the room. Independent refrigerant and hydraulic system for maintenance safety.

Reasonable waterproof and flame-retardant

Waterproof and flame-retardant materials are used in key areas of the machine to reduce the risk of fire and combustion.



Nurturing a greener, more sustainable future

A safe bet for the long term solution

Achieving EU carbon neutrality with Refrigerant 290

GWP=3
Lower global warming impact

ODP=0
Ozone layer neutral

Outstanding refrigerant properties

- Superior thermodynamic performance
- High thermal efficiency in a variety of conditions
- Requires less charging compared to other types of refrigerants



Noteworthy intelligent tools

Comprehensive dealer support tools

Heat pump selection provides comprehensive design

Heat Pump Selection software
https://www.midea-hpselection.com/

- Website design
- Dedicated section for professionals (Eurovent certification)
- Easy-select consumer section
- Sophisticated configuration tool
- Energy-usage comparison tool





Multiple after-sales service and support platforms



Download on the App Store
GET IT ON Google Play

LetsLink Heat Pump Assistant
APP

Heat pump remote connection and control from anywhere

- Ideal for busy service providers
- Enables faster service and eliminates unnecessary service calls
- Control various operations, monitor set parameters remotely
- Get reports with historical data
- Fault-code queries and troubleshooting

Intelligent HVAC Management System
Centralized, 24/7 monitoring of multiple units

- Enables complete control of all installed units
- Real-time status updates for multiple units with a single click
- Get access to historical data
- No limit to the number of connected devices and user accounts
- No need to carry multiple devices

